

CLAIMS

1. Apparatus for rewinding paper into rolls discontinuously without stopping unwinding comprising an unwinding device (12) of at least two plies of paper (13, 14) arranged in series with an embossing device (20) of the at least two plies and with a rereeling machine (27) which stops when a log is completed, characterised in that a gluing device (22) of the at least two plies of paper (13, 14) and an build up device (26) of the at least two glued plies for feeding the rereeling machine (27) are associated with the embossing device (20), with it being foreseen that the build up device (26) is actuated at each stopping of the rereeling machine (27) for all of the time taken to discharge a finished log and for the insertion of a core so that the devices upstream of the rereeling machine do not stop and thus the flow of paper is not interrupted.

2. Apparatus according to claim 1, characterised in that said build up device (26) comprises a frame (28) on which a series of fixed rollers (29) are arranged alternating with a series of vertically mobile rollers (30), wherein said at least two glued plies (13, 14) are inserted zigzagging back and forth between a fixed roller and a mobile roller.

3. Apparatus according to claim 1, characterised in that

said embossing device (20) comprises a bearer structure (24) on which deviator rollers (19) are arranged which direct one ply (14) to first embossing rollers (21) and the other ply (13) of said at least two plies (13, 14) 5 to said glue dispenser (22) arranged before second embossing rollers (23).

4. Apparatus according to claim 1, characterised in that said unwinding device (12), said embossing device (20), said build up device (26) and said rereeling machine 10 (27) have independent motors.